

# ● EUROPEAN PATENT OFFICE

**Patent Abstracts of Japan**

PUBLICATION NUMBER : 01066482  
 PUBLICATION DATE : 13-03-89

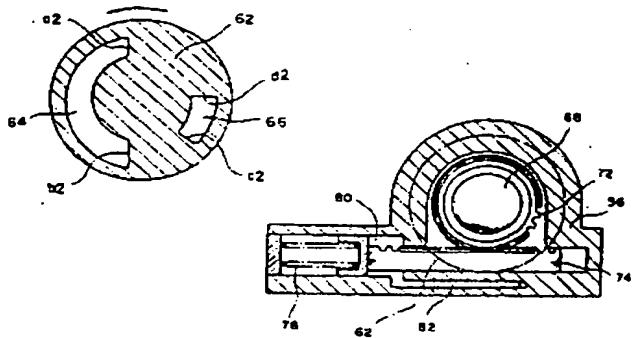
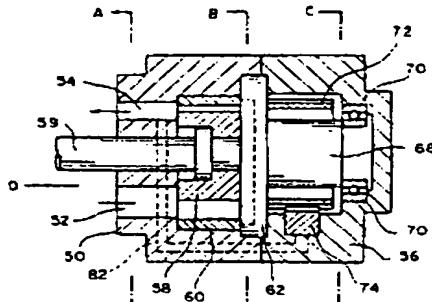
APPLICATION DATE : 08-09-87  
 APPLICATION NUMBER : 62222899

APPLICANT : TOHOKU MIKUNI KOGYO KK;

INVENTOR : TAKEHANA NORIO;

INT.CL. : F04C 2/10 F04C 15/04

TITLE : VARIABLE TYPE OIL PUMP



**ABSTRACT :** PURPOSE: To always keep the pressure on the discharge side below a specified level even if the number of revolutions increases by rotating a movable port body when the pressure in an oil stock chamber exceeds a predetermined level.

CONSTITUTION: When the pressure at a discharge port 54 exceeds a predetermined level, a rack 74 slides against a spring 78 due to the pressure, then a movable port body 62 is rotated with the sliding of this rack 74. The rotating tip end of a recess 64 on the intake side intrudes into a discharge area by the rotation of this movable port body 62. As a result, a lubrication oil in the discharge area is returned to an intake area through the recess 64 on the intake side, thereby the pressure on the discharge side is decreased. Due to the movement of this movable port body 62, the length of a normal intake port composed of the intake port 52 and the recess 64 on the intake side elongates resulting in the delay of the intake end.

COPYRIGHT: (C)1989,JPO&Japio